

WHAT IS CLAIMED IS:

1        1. A method for managing data stored in a data storage device connected to a  
2 computer, comprising the steps of:  
3        determining that a web page is to be cached, wherein the web page references other  
4 objects;  
5        storing the referenced objects in one or more data stores;  
6        caching the web page; and  
7        managing the cached web page and referenced objects in a coordinated fashion to ensure  
8 the display of a complete web page.

1        2. The method of claim 1, further comprising, when one or more of the referenced  
2 objects is deleted, deleting the web page from the cache.

1        3. The method of claim 1, further comprising, when the web page is deleted from the  
2 cache, deleting the referenced objects.

1        4. The method of claim 1, further comprising, prior to determining that a web page  
2 is to be cached:  
3        receiving a request to generate a dynamic web page; and  
4        retrieving data and placing the data in a dynamically generated web page, wherein the  
5 data is linked to other stored objects.

1        5. The method of claim 4, wherein managing the cached web page and referenced  
2 objects comprises the steps of:  
3        receiving a request from an administrator to delete the retrieved data based on  
4 administrator-provided input; and  
5        deleting the retrieved data based on the administrator-provided input.

1       6. The method of claim 4, wherein managing the cached data comprises the steps of:  
2       receiving a request from an administrator to delete the linked objects based on an  
3       administrator-provided input; and  
4       deleting the linked objects based on the administrator-provided input.

1       7. The method of claim 1, further comprising, processing a caching directive that  
2       specifies whether the web page should be cached.

1       8. The method of claim 1, further comprising, associating an expiration timestamp  
2       with the web page, wherein the expiration timestamp defines a time period in which the cached  
3       web page is valid.

1       9. The method of claim 8, wherein managing the cached web page and referenced  
2       objects further comprises automatically deleting the web page and the referenced objects when  
3       the expiration timestamp precedes a current timestamp.

1       10. The method of claim 9, wherein deleting further comprises first, deleting the web  
2       page and second, deleting the referenced objects.

1       11. The method of claim 8, wherein managing the cached web page and referenced  
2       objects comprises the steps of:  
3       receiving a request from an administrator to delete all cached web pages according to  
4       some administrator-specified selection criteria; and  
5       deleting all cached web pages and referenced objects that satisfy the  
6       administrator-specified selection criteria.

1       12. The method of claim 11, wherein deleting further comprises first, deleting the web  
2       page and second, deleting the referenced objects.

1        13. An apparatus for processing a request that requires the dynamic generation of a  
2 web page, the method comprising:  
3        a computer; and  
4        one or more programs, performed by the computer, for determining that a web page is to  
5 be cached, wherein the web page references other objects, storing the referenced objects in one or  
6 more data stores, caching the web page, and managing the cached web page and referenced  
7 objects in a coordinated fashion to ensure the display of a complete web page.

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1        14. The apparatus of claim 13, further comprising, when one or more of the  
2 referenced objects is deleted, deleting the web page from the cache.

1        15. The apparatus of claim 13, further comprising, when the web page is deleted from  
2 the cache, deleting the referenced objects.

1        16. The apparatus of claim 13, further comprising, prior to determining that a web  
2 page is to be cached, one or more computer programs, performed by the computer, for receiving  
3 a request to generate a dynamic web page, and retrieving data and placing the data in a  
4 dynamically generated web page, wherein the data is linked to other stored objects.

1        17. The apparatus of claim 16, wherein managing the cached data comprises one or  
2 more computer programs, performed by the computer, for receiving a request from an  
3 administrator to delete the retrieved data based on an administrator-provided input, and deleting  
4 the retrieved data based on the administrator-provided input.

1        18. The apparatus of claim 16, wherein managing the cached data comprises one or  
2 more computer programs, performed by the computer, for receiving a request from an  
3 administrator to delete the linked objects based on a second user provided input, and deleting the  
4 linked objects based on the administrator-provided input.

1        19. The apparatus of claim 13, further comprising one or more computer programs,  
2 performed by the computer, for processing a caching directive that specifies whether the web  
3 page should be cached.

1        20. The apparatus of claim 13, further comprising one or more computer programs,  
2 performed by the computer, for associating an expiration timestamp with the web page, wherein  
3 the expiration timestamp defines a time period in which the cached web page is valid.

1        21. The apparatus of claim 20, wherein managing the cached web page and referenced  
2 objects further comprises one or more computer programs, performed by the computer, for  
3 automatically deleting the web page and the referenced objects when the expiration timestamp  
4 precedes a current timestamp.

1        22. The apparatus of claim 21, wherein deleting further comprises one or more  
2 computer programs, performed by the computer, for first, deleting the web page and second,  
3 deleting the referenced objects.

1        23. The apparatus of claim 20, wherein managing the web page and referenced  
2 objects comprises one or more computer programs, performed by the computer, for receiving a  
3 request from an administrator to delete all cached web pages according to some  
4 administrator-specified selection criteria, and deleting all cached web pages and referenced  
5 objects that satisfy the administrator-specified selection criteria

1        24. The apparatus of claim 23, wherein deleting further comprises one or more  
2 computer programs, performed by the computer, for first, deleting the web page and second,  
3 deleting the referenced objects.

1        25. An article of manufacture comprising a computer program carrier readable by a  
2 computer and embodying one or more instructions executable by the computer to perform

3 method steps for managing data stored in a data storage device connected to a computer,  
4 comprising the steps of:  
5 determining that a web page is to be cached, wherein the web page references other  
6 objects;  
7 storing the referenced objects in one or more data stores;  
8 caching the web page; and  
9 managing the cached web page and referenced objects in a coordinated fashion to ensure  
10 the display of a complete Web page.

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1 26. The article of manufacture of claim 25, further comprising, when one or more of  
the referenced objects is deleted, deleting the web page from the cache.

1 27. The article of manufacture of claim 25, further comprising, when the web page is  
2 deleted, deleting the referenced objects.

1 28. The article of manufacture of claim 25, further comprising, prior to determining  
2 that a web page is to be cached:  
3 receiving a request to generate a dynamic web page; and  
4 retrieving data and placing the data in a dynamically generated web page, wherein the  
5 data is linked to other stored objects.

1 29. The article of manufacture of claim 28, wherein managing the cached web page  
2 and referenced objects comprises the steps of:  
3 receiving a request from an administrator to delete the retrieved data based on an  
4 administrator-provided input; and deleting the retrieved data based on the administrator-provided  
5 input.

1 30. The article of manufacture of claim 28, wherein managing the web page and  
2 referenced objects comprises the steps of:

3 receiving a request from an administrator to delete the linked objects based on an  
4 administrator-provided input; and  
5 deleting the linked objects based on the administrator-provided input.

1 31. The article of manufacture of claim 25, further comprising processing a caching  
2 directive that specifies whether the web page should be cached.

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1 32. The article of manufacture of claim 25, further comprising associating an  
2 expiration timestamp with the web page, wherein the expiration timestamp defines a time period  
3 in which the cached web page is valid.

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1 33. The article of manufacture of claim 32, wherein managing the cached web page  
2 and referenced objects further comprises automatically deleting the web page and the referenced  
3 objects when the expiration timestamp precedes a current timestamp.

1 34. The article of manufacture of claim 33, wherein deleting further comprises first,  
2 deleting the web page and second, deleting the referenced objects.

1 35. The article of manufacture of claim 32, wherein managing the cached web page  
2 and referenced objects comprises the steps of:  
3 receiving a request from an administrator to delete all cached web pages according to  
4 some administrator-specified selection criteria; and  
5 deleting all cached web pages and referenced objects that satisfy the  
6 administrator-specified selection criteria.

1 36. The article of manufacture of claim 35, wherein deleting further comprises first,  
2 deleting the web page and second, deleting the referenced objects.